

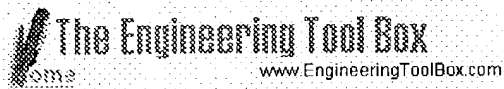
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The Engineering ToolBox > Combustion

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**Combustion** - Boiler house topics, fuels, chimneys, safety valves, tanks ..

## Wobbe Index and Fuel Gases

### The Wobbe index for some common fuel gases as propane, butane, methane and more

The Wobbe Index is a number indicating the interchange ability of fuel gases. It is the best indicator of the similarity between a specific natural gas and propane-air mixture.

Fuel Gas	Upper Wobbe Index (kcal/Nm <sup>3</sup> )	Lower Wobbe Index (kcal/Nm <sup>3</sup> )
Hydrogen	11,528	9,714
Methane	12,735	11,452
Ethane	16,298	14,931
Ethylene	15,253	14,344
Natural Gas	12,837	11,597
Propane	19,376	17,814
Propylene	18,413	17,180
n-Butane	22,066	20,336
Iso-Butane	21,980	20,247
Butylene-1	21,142	19,728
LPG	20,755	19,106
Acetylene	14,655	14,141
Carbon Monoxide	3,060	3,060

The Wobbe index relates fuel gas heating characteristics in a manner that is useful for blending fuel gases, or to obtain a constant heat flow from a gas of varying composition.

Note! The Wobbe Index does not relate flame temperature, heat transfer coefficients or temperature gradients.

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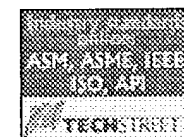
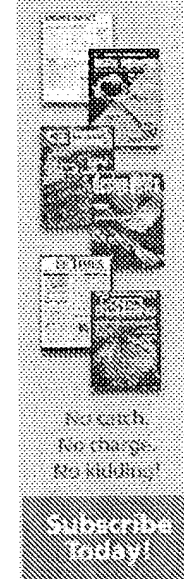
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